

Name: _____ Period: _____ Date: _____

More Multiplication Properties of Exponents Exit Quiz

Evaluate the following expressions.

1. $(2a^2b^4c^7)^4$

2. $(-5x^4y^5x)^3$

3. $(3z)^2(-2x^2)$

4. $(3mn)^2(-m^2n)(-2mn)^3$

5. $(5x^2)^2(3x)(-2x^5)$

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Answer:

Evaluate the following expressions.

$$1. (2a^2b^4c^7)^4 = 16a^8b^{16}c^{28}$$

$$3. (3z)^2(-2x^2) = -6z^2x^2$$

$$5. (5x^2)^2(3x)(-2x^5) = 25x^4(3x)(-2x^5) = 75x^5(-2x^5) \\ = -150x^{10}$$

$$2. (-5x^4y^5x)^3 = -125x^{15}y^{15}$$

$$4. (3mn)^2(-m^2n)(-2mn)^3 = 9m^2n^2(-m^2n)(-8m^3n^3) \\ = 72m^6n^6$$